

FORM PTO-1449 (modified)  
To: U.S. Department of Commerce  
(PM&S FORM PAT-1449)  
Patent and Trademark Office

Atty.  
Dkt. No.

M#

Client Ref.

244954

1002

Applicants: GLENN et al.

Appln. No. 09/257,188

Filing Date: February 25, 1999

Examiner: G. Ewoldt

Group Art Unit: 1644

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**

Date: July 20, 2001

1

of

14

**U.S. PATENT DOCUMENTS**

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	PA 3,837,340	09/1974	COUNTER			
	PB 3,948,263	04/1976	DRAKE			
	PC 3,982,536	09/1976	KROGSENG			
	PD 4,196,191	04/1980	ALMEIDA			
	PE 4,220,584	09/1980	LIMJUCO			
	PF 4,235,871	11/1980	PAPAHADJOPOULOS			
	PG 4,285,931	08/1981	LIMJUCO			
	PH 4,394,448	07/1983	SZOKA			
	PI 4,411,888	10/1983	KLIPSTEIN			
	PJ 4,455,142	06/1984	MARTINS			
	PK 4,484,923	11/1984	AMKRAUT			
	PL 4,497,796	02/1985	SALSER			
	PM 4,587,044	05/1986	MILLER			
	PN 4,692,462	09/1987	BANERJEE			
	PO 4,725,271	02/1988	KOROL			
	PP 4,732,892	03/1988	SARPOTDAR			
	PQ 4,743,588	05/1988	MIREJOVSKY			
	PR 4,761,372	08/1988	MAAS			
	PS 4,764,381	08/1988	BODOR			
	PT 4,783,450	11/1988	FAWZI			
	PU 4,834,985	05/1989	ELGER			
	PV 4,876,278	10/1989	TAYLOR			
	PW 4,877,612	10/1989	BERGER			
	PX 4,892,737	01/1990	BODOR			
	PY 4,908,389	03/1990	MAHJOUR			
	PZ 4,917,688	04/1990	NELSON			

**FOREIGN PATENT DOCUMENTS**

Document Number	Date MM/YYYY	Country	Inventor Name	Class	SubClass	English Abstract	Translation Readily Available
						Enclosed	No
						Enclose	No

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

Examiner

Date Considered: 2/18/03

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 (modified)  
To: U.S. Department of Commerce  
(PM&S FORM PAT-1449)  
Patent and Trademark Office

Atty.  
Dkt. No.

M#

Client Ref.

244954

1002

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**

Applicants: GLENN et al.

Appln. No. 09/257,188

Filing Date: February 25, 1999

Examiner: G. Ewoldt

Group Art Unit: 1644

Date: July 20, 2001

2

of

14

**U.S. PATENT DOCUMENTS**

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	QA 4,917,895	04/1990	LEE			
	QB 4,921,757	05/1990	WHEATLEY			
	QC 4,929,442	05/1990	POWELL			
	QD 4,946,853	08/1990	BANNON			
	QE 4,956,171	09/1990	CHANG			
	QF 4,960,771	10/1990	RAJADHYAKSHA			
	QG 4,970,206	11/1990	ALEXANDER			
	QH 5,008,050	04/1991	CULLIS			
	QI 5,008,111	04/1991	BODOR			
	QJ 5,023,252	06/1991	HSIEH			
	QK 5,028,435	07/1991	KATZ			
	QL 5,030,629	07/1991	RAJADHYAKSHA			
	QM 5,032,402	07/1991	DIGENIS			
	QN 5,041,439	08/1991	KASTING			
	QO 5,045,317	09/1991	CHESS			
	QP 5,049,386	09/1991	EPPSTEIN			
	QQ 5,049,387	09/1991	AMKRAUT			
	QR 5,059,189	10/1991	CILENTO			
	QS 5,059,421	10/1991	LOUGHREY			
	QT 5,069,904	12/1991	MASTERSON			
	QU 5,082,866	01/1992	WONG			
	QV 5,108,921	04/1992	LOW			
	QW 5,142,044	08/1992	MINASKANIAN			
	QX 5,162,315	11/1992	RAJADHYAKSHA			
	QY 5,164,406	11/1992	HELMAN			
	QZ					

**FOREIGN PATENT DOCUMENTS**

		Document Number	Date MM/YYYY	Country	Inventor Name	Class	SubClass	Abstract		Readily Available	
								Enclosed	No	Enclose	No

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

Examiner

Date Considered: 7/18/03

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Atty.  
Dkt. No.

M#

Client Ref.

244954

1002

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**

Applicants: GLENN et al.

Appln. No. 09/257,188

Filing Date: February 25, 1999

Date: July 20, 2001

Page

3

of

14

Examiner: G. Ewoldt

Group Art Unit: 1644

**U.S. PATENT DOCUMENTS**

Examiner's Initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	RA	5,166,320	11/1992	WU			
	RB	5,169,637	12/1982	LENK			
	RC	5,182,109	01/1993	TAMURA			
	RD	5,196,410	03/1993	FRANCOEUR			
	RE	5,200,393	04/1993	WEINER			
	RF	5,204,339	04/1993	MINASKANIAN			
	RG	5,215,520	06/1993	SHROOT			
	RH	5,225,182	07/1993	SHARMA			
	RI	5,232,935	08/1993	COLAS			
	RJ	5,234,959	08/1993	MINASKANIAN			
	RK	5,238,944	08/1993	WICK			
	RL	5,240,846	08/1993	COLLINS			
	RM	5,252,334	10/1993	CHIANG			
	RN	5,256,422	10/1993	ALBERT			
	RO	5,260,066	11/1993	WOOD			
	RP	5,270,346	12/1993	MINASKANIAN			
	RQ	5,308,835	05/1994	CLEMENTS			
	RR	5,326,566	07/1994	PARAB			
	RS	5,326,790	07/1994	THORNFELDT			
	RT	5,328,470	07/1994	NABEL			
	RU	5,332,576	07/1994	MANTELLE			
	RV	5,332,577	07/1994	GERTNER			
	RW	5,340,588	08/1994	DOMB			
	RX	5,352,449	10/1994	BELTZ			
	RY	5,399,346	03/1995	ANDERSON			
	RZ	5,411,738	05/1995	HIND			

**FOREIGN PATENT DOCUMENTS**

		Document Number	Date MM/YYYY	Country	Inventor Name	Class	SubClass	English Abstract	Translation Readily Available
								Enclosed	No
								Enclose	No

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)


Examiner

*Ewoldt*

Date Considered: 7/18/03

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Atty.  
Dkt. No.

M#

Client Ref.

244954

1002

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**

Applicants: GLENN et al.

Appln. No. 09/257,188

Filing Date: February 25, 1999

Date: July 20, 2001

Page

4

of

14

Examiner: G. Ewoldt

Group Art Unit: 1644

**U.S. PATENT DOCUMENTS**

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	SA 5,428,132	06/1995	HIRSCH			
	SB 5,445,611	08/1995	EPPSTEIN			
	SC 5,458,140	10/1995	EPPSTEIN			
	SD 5,462,743	10/1995	TURNER			
	SE 5,464,386	11/1995	HOFMANN			
	SF 5,472,946	12/1995	PECK			
	SG 5,482,965	01/1996	RAJADHYAKSHA			
	SH 5,492,698	02/1996	VON KLEINSORGEN			
	SI 5,505,956	04/1996	KIM			
	SJ 5,505,958	04/1996	BELLO			
	SK 5,533,995	07/1996	CORISH			
	SL 5,534,260	07/1996	PETERSEN			
	SM 5,536,263	07/1996	ROLF			
	SN 5,540,931	07/1996	HEWITT			
	SO 5,547,932	08/1996	CURIEL			
	SP 5,573,778	11/1996	THERRIAULT			
	SQ 5,578,475	11/1996	JESSEE			
	SR 5,580,859	12/1996	FELGNER			
	SS 5,589,466	12/1996	FELGNER			
	ST 5,593,972	01/1997	WEINER			
	SU 5,601,827	02/1997	COLLIER			
	SV 5,607,691	03/1997	HALE			
	SW 5,612,382	03/1997	FIKE			
	SX 5,614,212	03/1997	D'ANGELO			
	SY 5,614,503	03/1997	CHAUDHARY			
	SZ 5,620,896	04/1997	HERMANN			

**FOREIGN PATENT DOCUMENTS**

Document Number	Date MM/YYYY	Country	Inventor Name	Class	SubClass	English Abstract	Translation Readily Available
						Enclosed	No
						Enclose	No

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

Examiner

Date Considered: 2/18/03

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 (modified)  
To: U.S. Department of Commerce  
(PM&S FORM PAT-1449)  
Patent and Trademark Office

Atty.  
Dkt. No.

M#

Client Ref.

244954

1002

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**

Applicants: GLENN et al.

Appln. No. 09/257,188

Filing Date: February 25, 1999

Examiner: G. Ewoldt

Group Art Unit: 1644

Date: July 20, 2001

Page

of

14

**U.S. PATENT DOCUMENTS**

Examiner's Initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	TA	5,626,866	05/1997	EBERT			
	TB	5,643,578	07/1997	ROBINSON			
	TC	5,658,587	08/1997	SANTUS			
	TD	5,661,025	08/1997	SZOKA			
	TE	5,661,130	08/1997	MEEZAN			
	TF	5,674,503	10/1997	OLAFSON			
	TG	5,676,954	10/1997	BRIGHAM			
	TH	5,679,647	10/1997	CARSON			
	TI	5,686,100	11/1997	WILLE			
	TJ	5,693,024	12/1997	FLOWER			
	TK	5,693,622	12/1997	WOLFF			
	TL	5,695,991	12/1997	LINDHOLM			
	TM	5,697,901	12/1997	ERIKSSON			
	TN	5,698,416	12/1997	WOLF			
	TO	5,703,057	12/1997	JOHNSTON			
	TP	5,705,151	01/1998	DOW			
	TQ	5,718,914	02/1998	FOLDVARI			
	TR	5,720,948	02/1998	BRUCKS			
	TS	5,722,397	03/1998	EPPSTEIN			
	TT	5,723,114	03/1998	THORNFELDT			
	TU	5,731,303	03/1998	HSIEH			
	TV	5,733,572	03/1998	UNGER			
	TW	5,733,762	03/1998	MIDOUX			
	TX	5,736,154	04/1998	FUISZ			
	TY	5,736,392	04/1998	HAWLEY-NELSON			
	TZ	5,736,524	04/1998	CONTENT			

**FOREIGN PATENT DOCUMENTS**

		Document Number	Date MM/YYYY	Country	Inventor Name	Class	SubClass	English Abstract	Translation Readily Available
								Enclosed	No
								Enclose	No

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

Examiner

Date Considered: 2/18/03

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 (modified)  
To: U.S. Department of Commerce  
(PM&S FORM PAT-1449)  
Patent and Trademark Office

Atty.  
Dkt. No.

M#

Client Ref.

244954

1002

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**

Applicants: GLENN et al.

Appln. No. 09/257,188

Filing Date: February 25, 1999

Date: July 20, 2001

Page

of

14

Examiner: G. Ewoldt

Group Art Unit: 1644

**U.S. PATENT DOCUMENTS**

Examiner's Initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	UA	5,738,647	04/1998	BERNHARD			
	UB	5,739,118	04/1998	CARRANO			
	UC	5,741,510	04/1998	ROLF			
	UD	5,756,117	05/1998	D'ANGELO			
	UE	5,760,096	06/1998	THORNFELDT			
	UF	5,766,899	06/1998	KUO			
	UG	5,770,580	06/1998	LEDLEY			
	UH	5,773,022	06/1998	NYQVIST-MAYER			
	UI	5,780,050	07/1998	JAIN			
	UJ	5,783,567	07/1998	HEDLEY			
	UK	5,789,230	08/1998	COTTON			
	UL	5,804,214	09/1998	WONG			
	UM	5,804,566	09/1998	CARSON			
	UN	5,811,406	09/1998	SZOKA			
	UO	5,814,599	09/1998	MITRAGOTRI			
	UP	5,814,617	09/1998	HOFFMAN			
	UQ	5,824,538	10/1998	BRANSTROM			
	UR	5,827,703	10/1998	DEBS			
	US	5,827,705	10/1998	DEAN			
	UT	5,830,876	11/1998	WEINER			
	UU	5,830,877	11/1998	CARSON			
	UV	5,834,010	11/1998	QUAN			
	UW	5,837,289	11/1998	GRASELA			
	UX	5,837,533	11/1998	BOUTIN			
	UY	5,840,059	11/1998	MARCH			
	UZ	5,843,913	12/1998	LI			

**FOREIGN PATENT DOCUMENTS**

		Document Number	Date MM/YYYY	Country	Inventor Name	Class	SubClass	English Abstract	Translation Readily Available
								Enclosed	No
								Enclose	No

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

Examiner

*Ewoldt*

Date Considered:

*2/18/03*

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 (modified)  
To: U.S. Department of Commerce  
(PM&S FORM PAT-1449)  
Patent and Trademark Office

Atty.  
Dkt. No.

M#

Client Ref.

244954

1002

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**

Applicants: GLENN et al.

Appln. No. 09/257,188

Filing Date: February 25, 1999

Examiner: G. Ewoldt

Group Art Unit: 1644

Date: July 20, 2001

Page

of

14

**U.S. PATENT DOCUMENTS**

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	VA 5,844,107	12/1998	HANSON			
	VB 5,846,540	12/1998	RESTIFO			
	VC 5,846,949	12/1998	WAGNER			
	VD 5,849,719	12/1998	CARSON			
	VE 5,853,751	12/1998	MASIZ			
	VF 5,856,187	01/1999	RESTIFO			
	VG 5,858,784	01/1999	DEBS			
	VH 5,866,553	02/1999	DONNELLY			
	VI 5,877,159	03/1999	POWELL			
	VJ 5,877,302	03/1999	HANSON			
	VK 5,885,971	03/1999	GERMAN			
	VL 5,910,306	06/1999	ALVING			
	VM 5,910,488	06/1999	NABEL			
	VN 5,914,114	06/1999	CASELS			
	VO 5,916,879	06/1999	WEBSTER			
	VP 5,935,838	08/1999	ASKELOEF			
	VQ 5,961,979	10/1999	SRIVASTAVA			
	VR 5,980,898	11/1999	GLENN			
	VS 5,985,847	11/1999	CARSON			
	VT 6,008,200	12/1999	KRIEG			
	VU 6,039,969	03/2000	TOMAI			
	VV 6,087,341	07/2000	KHAVARI			
	VW 6,173,202	01/2001	EPPSTEIN			
	VX 6,180,136	01/2001	LARSON			
	VY 6,183,434	02/2001	EPPSTEIN			
	VZ 6,210,672	04/2001	COWING			

**FOREIGN PATENT DOCUMENTS**

Document Number	Date MM/YYYY	Country	Inventor Name	Class	SubClass	English Abstract	Translation Readily Available
						Enclosed	No
						Enclose	No

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

Examiner

Date Considered: 7/18/03

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Atty.  
Dkt. No.

M#

Client Ref.

244954

1002

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**



Applicants: GLENN et al.

Appln. No. 09/257,188

Filing Date: February 25, 1999

Examiner: G. Ewoldt

Group Art Unit: 1644

Date: July 20, 2001

Page

8

of

14

**U.S. PATENT DOCUMENTS**

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)

**FOREIGN PATENT DOCUMENTS**

		Document Number	Date MM/YYYY	Country	Inventor Name	Class	SubClass	English Abstract		Translation Readily Available	
								Enclosed	No	Enclose	No
	XA	AU 47099/89	06/1990	AU							
	XB	WO 92/03122	03/1992	WIPO							
	XC	WO 94/21230	09/1994	WIPO							
	XD	WO 96/14855	05/1996	WIPO							
	XE	WO 96/25190	08/1996	WIPO							
	XF	WO 97/24447	07/1997	WIPO							
	XG	WO 97/31119	08/1997	WIPO							
	XH	WO 97/35957	10/1997	WIPO							
	XI	WO 98/01538	01/1998	WIPO							
	XJ	WO 98/10750	03/1998	WIPO							
	XK	WO 98/20734	05/1998	WIPO							
	XL	WO 98/42375	10/1998	WIPO							
	XM	WO 98/46208	10/1998	WIPO							
	XN	EP 0 891 770	01/1999	EPO							
	XO	WO 99/04009	01/1999	WIPO							
	XP	WO 99/08689	02/1999	WIPO							
	XQ	WO 99/08713	02/1999	WIPO							
	XR	WO 99/41366	08/1999	WIPO							
	XS	WO 99/43350	09/1999	WIPO							
	XT	WO 99/53960	10/1999	WIPO							
	XU	WO 99/60167	11/1999	WIPO							
	XV	WO 99/62537	12/1999	WIPO							
	XW	WO 00/44349	08/2000	WIPO							
	XX	WO 00/61184	10/2000	WIPO							
	XY										
	XZ										

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

Examiner

*Ewoldt*

Date Considered:

*2/18/03*

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449 (modified)  
To: U.S. Department of Commerce  
(PM&S FORM PAT-1449)  
Patent and Trademark Office

Atty.  
Dkt. No.

M#

Client Ref.

244954

1002

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**

Applicants: GLENN et al.

Appln. No. 09/257,188

Filing Date: February 25, 1999

Examiner: G. Ewoldt

Group Art Unit: 1644

Date: July 20, 2001

9

of

14

**U.S. PATENT DOCUMENTS**

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
-------------------------	--------------------	-----------------	-----------------------------------------	-------	--------------	---------------------------------

**FOREIGN PATENT DOCUMENTS**

	Document Number	Date MM/YYYY	Country	Inventor Name	Class	SubClass	English Abstract		Translation Readily Available	
							Enclosed	No	Enclose	No

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

AA	ALLISON "Hydrogen bonding between sugar and protein is responsible for inhibition of dehydration-induced protein unfolding" Arch Biochem Biophys 365 (1999) 289-298
AB	ALLISON "Optimization of storage stability of lyophilized actin using combinations of disaccharides and dextran" J Pharm Sci 89 (2000) 199-214
AC	ANDYA "The effect of formulation excipients on protein stability and aerosol performance of spray-dried powders of a recombinant humanized anti-IgE monoclonal antibody" Pharm Res 16 (1999) 350-358
AD	ARAKAWA "Protein-solvent interactions in pharmaceutical formulations" Pharma Res 8 (1991) 285-291
AE	ARANY "Correlation between pretreatment levels of interferon response genes and clinical responses to an immune response modifier (imiquimod) in genital warts" Antimicrob Agents Chemother 44 (2000) 1869-1873
AF	ALVING "Effectiveness of liposomes as potential carriers of vaccines: Applications to cholera toxin and human malaria sporozoite antigen" Vaccine 4 (1986) 166-172
AG	ALVING "Liposomes as carriers of antigens and adjuvants" J Immunol Methods 140 (1991) 1-13
AH	ALVING "Lipopolysaccharide, lipid A, and liposomes containing lipid A as immunologic adjuvants" Immunobiology 187 (1993) 430-446
AI	ALVING "Novel adjuvant strategies for experimental malaria and AIDS vaccines" Ann NY Acad Sci 690 (1993) 265-275
AJ	ALVING "The preparation and use of liposomes in immunological studies" In: <i>Liposome Technology</i> , vol. 3, CRC Press (1993) pp. 317-343
AK	ALVING "Cytotoxic T lymphocytes induced by liposomal antigens: Mechanisms of immunological presentation" AIDS Res Hum Retroviruses 10 suppl 2 (1994) S91-S94
AL	ALVING "Liposomes as carriers of peptide antigens: induction of antibodies and cytotoxic T lymphocytes to conjugated and unconjugated peptides" Immunol Rev 145 (1995) 5-31
AM	BECKER "Mechanism in allergic contact dermatitis" Exp Dermatol 2 (1993) 63-69
AN	BIRCH "Trehaloses" Adv Carb Chem Biochem 18 (1963) 201-2225
AO	BLAUVELT "Human Langerhans cells express E-cadherin" J Invest Dermatol 104 (1995) 293-296
AP	BOS "The 500 dalton rule for the skin penetration of chemical compounds and drugs" Exp Dermatol 9 (2000) 165-169
AQ	
AR	
AS	

Examiner

Date Considered: Feb 2/18/03

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Atty.  
Dkt. No.

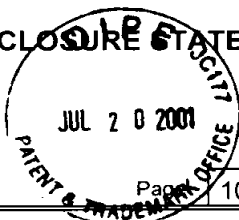
M#

Client Ref.

244954

1002

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**



Date: July 20, 2001

Page

10

of

14

Applicants: GLENN et al.

Appln. No. 09/257,188

Filing Date: February 25, 1999

Examiner: G. Ewoldt

Group Art Unit: 1644

**U.S. PATENT DOCUMENTS**

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
-------------------------	--------------------	-----------------	-----------------------------------------	-------	--------------	---------------------------------

**FOREIGN PATENT DOCUMENTS**

ORIGINAL PAPER DOCUMENT								Abstract		Readily Available	
		Document Number	Date MM/YYYY	Country	Inventor Name	Class	SubClass	Enclosed	No	Enclose	No

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

BA	BOVSUN "DNA vaccine rubbed on skin provokes immune response" Biotechnol Newswatch (September 20, 1999) page 4
BB	BOWEN "Cholera toxin acts as a potent adjuvant for the induction of cytotoxic T-lymphocyte responses with non-replicating antigens" Immunol 81 (1994) 338-342
BC	BUATES "Treatment of experimental Leishmaniasis with the immunomodulators imiquimod and S-28463: Efficacy and mode of action" J Infect Dis 179 (1999) 1485-1494
BD	CHEN "Induction of systemic immune responses in sheep by topical application of cholera toxin to skin" Vet Immunol Immunopathol 77 (2000) 191-199
BE	CHIN "Antibody response against Pseudomonas aeruginosa membrane proteins in experimentally infected sheep" Vet Microbiol 43 (1995) 21-32
BF	CHIN "Manipulating systemic and mucosal immune responses with skin-deliverable adjuvants" J Biotechnol 44 (1996) 13-19
BG	CONDON "DNA-based immunization by in vivo transfection of dendritic cells" Nature Med 2 (1996) 1122-1128
BH	COSTANTINO "Effect of excipients on the stability and structure of lyophilized recombinant human growth hormone" J Pharm Sci 87 (1998) 1412-1420
BI	CRAIG "Cutaneous responses to cholera skin toxin in man. I. Responses in unimmunized American males" J Infect Dis 125 (1972) 203-215
BJ	DE HAAN "Liposomes as an immunoadjuvant system for stimulation of mucosal and systemic antibody responses against inactivated measles virus administered intranasally to mice" Vaccine 13 (1995) 1320-1324
BK	EGBARIA "Liposomes as topical drug delivery system" Adv Drug Delivery Rev 5 (1990) 287-300
BL	ENK "An essential role for Langerhans cell-derived IL-1 beta in the initiation of primary immune responses in skin" J Immunol 151 (1993) 2390-2398
BM	FAN "Immunization via hair follicles by topical application of naked DNA to normal skin" Nature Biotechnol 17 (1999) 870-872
BN	FLEISHER "Topical delivery of growth hormone releasing peptide using liposomal systems: An in vitro study using hairless mouse skin" Life Sci 57 (1995) 1293-1297
BO	FRANK "Long-term stabilization of biologicals" Bio/Technology 12 (1994) 253-256
BP	
BQ	
BR	

Examiner

Date Considered: 4/18/03

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 (modified)  
To: U.S. Department of Commerce  
(PM&S FORM PAT-1449)  
Patent and Trademark Office

Atty.  
Dkt. No.

M#

Client Ref.

244954

1002

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**

Applicants: GLENN et al.

Appln. No. 09/257,188

Filing Date: February 25, 1999

Examiner: G. Ewoldt

Group Art Unit: 1644

Date: July 20, 2001

Page

11

Of

14

**U.S. PATENT DOCUMENTS**

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
-------------------------	--------------------	-----------------	-----------------------------------------	-------	--------------	---------------------------------

**FOREIGN PATENT DOCUMENTS**

Document Number	Date MM/YYYY	Country	Inventor Name	Class	SubClass	English Abstract	Translation Readily Available		
						Enclosed	No	Enclose	No

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

132	CA	GEKKO "Mechanism of protein stabilization by glycerol: Preferential hydration in glycerol-water mixtures" Biochemistry 20 (1981) 4667-4676
	CB	GLENN "Murine IgG subclass antibodies to antigens incorporated in liposomes containing lipid A" Immunol Lett 47 (1995) 73-78
	CC	GLENN "Skin immunization made possible by cholera toxin" Nature 391 (1998) 851
	CD	GLENN "Transcutaneous immunization with cholera toxin protects mice against lethal mucosal toxin challenge" J Immunol 161 (1998) 3211-3214
	CE	GLENN "Transcutaneous immunization with bacterial ADP-ribosylating exotoxins as antigens and adjuvants" Infect Immun 67 (1999) 1100-1106
	CF	GLENN "Transcutaneous immunisation" Exp Opin Invest Drugs 8 (1999) 797-805
	CG	GLENN "Transcutaneous immunization" In: <i>The Jordan Report 2000</i> , NIAID, pp. 91-93
	CH	GLENN "Transcutaneous immunization: A human vaccine delivery strategy using a patch" Nature Med 6 (2000) 1403-1406
	CI	GLENN "Transcutaneous immunization" In: <i>Vaccine Adjuvants</i> , Humana Press (April 2000) pp. 315-326
	CJ	GLENN "Transcutaneous immunization" In: <i>New Vaccine Technologies</i> , Landes Biosciences (June 2001) pp. 292-304
	CK	GOODNOW "Chance encounters and organized rendezvous" Immunol Rev 156 (1997) 5-10
	CL	GUPTA "Adjuvants for human vaccines - current status, problems and future prospects" Vaccine 13 (1995) 1263-1276
	CM	HAMMOND "Transcutaneous immunization of domestic animals: Opportunities and challenges" Adv Drug Delivery Rev 43 (2000) 45-55
	CN	HAMMOND "Transcutaneous immunization: T cell responses and boosting of existing immunity" Vaccine 19 (2001) 2701-2707
	CO	HANSON "Introduction to formulation of protein pharmaceuticals" In: <i>Stability of Protein Pharmaceuticals</i> , Plenum (1992) pp. 209-233
1582	CP	HOELZLE "Increased accumulation of trehalose in rhizobia cultured under 1% oxygen" Appl Environ Microbiol 56 (1990) 3213-3215
	CQ	
	CR	
	CS	

Examiner

*Ewoldt*

Date Considered: 2/18/03

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 (modified)  
To: U.S. Department of Commerce  
(PM&S FORM PAT-1449)  
Patent and Trademark Office

Atty.  
Dkt. No.

M#

Client Ref.

244954

1002

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**

Applicants: GLENN et al.

Appln. No. 09/257,188

Filing Date: February 25, 1999

Examiner: G. Ewoldt

Group Art Unit: 1644

Date: July 20, 2001

Page

12

of

14

**U.S. PATENT DOCUMENTS**

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
-------------------------	--------------------	-----------------	-----------------------------------------	-------	--------------	---------------------------------

**FOREIGN PATENT DOCUMENTS**

Document Number	Date MM/YYYY	Country	Inventor Name	Class	SubClass	English Abstract	Translation Readily Available
Enclosed	No	Enclose	No				

**OTHER** (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

DA	HSIUNG <i>Diagnostic Virology</i> 3 <sup>rd</sup> Ed., Yale Univ. Press (1982) pp. 29-34
DB	IIZUKA "Two simple methods for the evaluation of topically active anti-inflammatory steroidal ointments" <i>Agents Actions</i> 11 (1981) 254-259
DC	IZUTSU "Increased stabilizing effects of amphiphilic excipients on freeze-drying of lactate dehydrogenase (LDH) by dispersion into sugar matrices" <i>Pharm Res</i> 12 (1995) 838-843
DD	JOHNSON "Vaccination onto bare skin" <i>Nature</i> 388 (1997) 729-730
DE	KAHAN "Immunosuppressive therapy" <i>Current Opin Immunol</i> 4 (1992) 553-560
DF	KNOP "Cellular and molecular mechanisms in the induction phase of contact sensitivity" <i>Intl Arch Allergy Immunol</i> 107 (1995) 231-232
DG	KORTING "Topical liposome drugs to come: what the patent literature tells us" <i>J Am Acad Dermatol</i> 25 (1991) 1068-1071
DH	KORTING "Interaction of liposomes with human epidermis reconstructed in vitro" <i>Br J Dermatol</i> 132 (1995) 571-579
DI	KOSECKA "Pertussis toxin stimulates hypersensitivity and enhances nerve-mediated antigen uptake in rat intestines" <i>Am J Physiol</i> 267 (1994) G745-G752
DJ	LANE "In vitro-evaluation of human lymphocyte function" In: <i>Handbook of Experimental Immunology</i> 4 <sup>th</sup> Ed., vol. 2, Blackwell (1986) pp. 66.5-66.7
DK	LUO "Synthetic DNA delivery systems" <i>Nature Biotechnol</i> 18 (2000) 33-37
DL	MAHMOUD "Parasitic protozoa and helminths: Biological and immunological challenges" <i>Science</i> 246 (1989) 1015-1022
DM	MARINARO "Mucosal effect of cholera toxin in mice results from induction of T helper 2 (Th2) cells and IL-4" <i>J Immunol</i> 155 (1995) 4621-4629
DN	MENGIARDI "Virosomes as carriers for combined vaccines" <i>Vaccine</i> 13 (1995) 1306-1315
DO	MEZEI "Liposomes - a selective drug delivery system for the topical route of administration. Lotion dosage form" <i>Life Sci</i> 26 (1980) 1473-1477
DP	MOGHIMI "Current progress and future prospects of liposomes in dermal drug delivery" <i>J Microencapsul</i> 10 (1993) 155-162
DQ	NORIMATSU "Effects of aluminum adjuvant on systemic reactions of lipopolysaccharides in swine" <i>Vaccine</i> 13 (1995) 1325-1329
DR	
DS	
DT	

Examiner

Date Considered: 2/18/03

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Atty.  
Dkt. No.

M#

Client Ref.

244954

1002

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**

Applicants: GLENN et al.

Appln. No. 09/257,188

Filing Date: February 25, 1999

Examiner: G. Ewoldt

Group Art Unit: 1644

Date: July 20, 2001

Page

13

of

14

**U.S. PATENT DOCUMENTS**

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
-------------------------	--------------------	-----------------	-----------------------------------------	-------	--------------	---------------------------------

**FOREIGN PATENT DOCUMENTS**

Document Number	Date MM/YYYY	Country	Inventor Name	Class	SubClass	English Abstract	Translation Readily Available
						Enclosed	No
						Enclose	No

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

EA	PAUL "Transdermal immunization with large proteins by means of ultradeformable drug carriers" Eur J Immunol 25 (1995) 3521-3524
EB	PAUL "Noninvasive administration of protein antigens: Transdermal immunization with bovine serum albumin in transferosomes" Vaccine Res 4 (1995) 145-164
EC	PETERS "Dendritic cells: From ontogenetic orphans to myelo-monocytic descendants" Immunol Today 17 (1996) 273-278
ED	POWERS "In previously immunized elderly adults inactivated influenza A (H1N1) virus vaccines induce poor antibody responses that are not enhanced by liposome adjuvant" Vaccine 13 (1995) 1330-1335
EE	RANADE "Drug delivery systems. 6. Transdermal drug delivery" J Clin Pharmacol 31 (1991) 401-418
EF	RAO "Intracellular processing of liposome-encapsulated antigens by macrophages depends upon the antigen" Infect Immun 63 (1995) 2396-2402
EG	SANCHEZ "Formulation strategies for the stabilization of tetanus toxoid in poly(lactide-co-glycolide) microspheres" Intl J Pharm 185 (1999) 255-266
EH	SAUZET "Long-lasting anti-viral cytotoxic T lymphocytes induced in vivo with chimeric-multirestricted lipopeptides" Vaccine 13 (1995) 1339-1345
EI	SCHAEFER-KORTING "Liposome preparations: A step forward in topical drug therapy for skin disease?" J Am Acad Dermatol 21 (1989) 1271-1275
EJ	SCHARTON-KERSTEN "Principles of transcutaneous immunization using cholera toxin as an adjuvant" Vaccine 17 suppl 2 (1999) S37-S43
EK	SCHARTON-KERSTEN "Transcutaneous immunization with bacterial ADP-ribosylating exotoxins, subunits, and unrelated adjuvants" Infect Immun 68 (2000) 5306-5313
EL	SCHMITT "Bacterial toxins: Friends or foes" Emerging Infect Dis 5 (1999) 224-234
EM	SCHWARZENBERGER "Contact allergens and epidermal proinflammatory cytokines modulate Langerhans cell E-cadherin expression in situ" J Invest Dermatol 106 (1996) 553-558
EN	SEO "Percutaneous peptide immunization via corneum barrier-disrupted murine skin for experimental tumor immunoprophylaxis" Proc Natl Acad Sci USA 97 (2000) 371-376
EO	SMALL, In: <i>Handbook of Lipid Research</i> , Plenum, 4:43-87 and 89-96
EP	STACEY "Macrophages ingest and are activated by bacterial DNA" J Immunol 157 (1996) 2116-2122
EQ	
ER	
ES	

Examiner

Date Considered: 2/18/03

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Atty.  
Dkt. No.

M#

Client Ref.

244954

1002

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**

Applicants: GLENN et al.

Appln No. 09/257,188

Filing Date: February 25, 1999

Date: July 20, 2001

Page 14 of

Examiner: G. Ewoldt

Group Art Unit: 1644

**U.S. PATENT DOCUMENTS**

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
-------------------------	--------------------	-----------------	-----------------------------------------	-------	--------------	---------------------------------

**FOREIGN PATENT DOCUMENTS**

	Document Number	Date MM/YYYY	Country	Inventor Name	Class	SubClass	English Abstract		Translation Readily Available	
							Enclosed	No	Enclose	No

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

FA	STEINMAN "Dendritic cells in the T-cell areas of lymphoid organs" Immunol Rev 156 (1997) 25-37
FB	STINGL "The immune functions of epidermal cells" Immunol Ser 46 (1989) 3-72
FC	SUZUKI "Imiquimod, a topical immune response modifier, induces migration of Langerhans cells" J Invest Dermatol 114 (2000) 135-141
FD	UDEY "Cadherins and Langerhans cell immunobiology" Clin Exp Immunol 107 suppl 1 (1997) 6-8
FE	VASELL "Activation of Langerhans cells following transcutaneous immunization" 13 FASEB J (1999) A633
FF	VERMA "Phagocytosis of liposomes by macrophages: intracellular fate of liposomal malaria antigen" Biochim Biophys Acta 1066 (1991) 229-238
FG	VERMA "Adjuvant effects of liposomes containing lipid A: enhancement of liposomal antigen presentation and recruitment of macrophages" Infect Immun 60 (1992) 2438-2444
FH	VUTLA "Transdermal iontophoretic delivery of enkephalin formulated in liposomes" J Pharm Sci 85 (1996) 5-8
FI	WALKER "The role of percutaneous penetration enhancers" Adv Drug Delivery Rev 18 (1996) 295-301
FJ	WANG "Induction of protective polyclonal antibodies by immunization with a Plasmodium yoelii circumsporozoite protein multiple antigen peptide vaccine" J Immunol 154 (1995) 2784-2793
FK	WANG "Epicutaneous exposure of protein antigen induces a predominant Th2-like response with high IgE production in mice" J Immunol 156 (1996) 4077-4082
FL	WASSEF "Liposomes as carriers for vaccines" Immunomethods 4 (1994) 217-222
FM	WEINER "Topical delivery of liposomally encapsulated interferon evaluated in a cutaneous herpes guinea pig model" Antimicrob Agents Chemotherap 33 (1989) 1217-1221
FN	WHITE "Induction of cytolytic and antibody responses using Plasmodium falciparum repeatless circumsporozoite protein encapsulated in liposomes" Vaccine 11 (1993) 1341-1346
FO	WHITE "Antibody and cytotoxic T-lymphocyte responses to a single liposome associated peptide antigen" Vaccine 13 (1995) 1111-1122
FP	YASUTOMI "A vaccine-elicited, single viral epitope-specific cytotoxic T lymphocyte response does not protect against intravenous, cell-free simian immunodeficiency virus challenge" J Virol 69 (1995) 2279-2284
FQ	ZELLMER "Interaction of phosphatidylcholine liposomes with the human stratum corneum" Biochim Biophys Acta 1237 (1995) 176-182
FR	
FS	
FT	

Examiner

Date Considered: 7/18/03

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.